February 1, 2018

Mr. Dale Myers
Washington State Department of Ecology
Toxics Cleanup Program, Northwest Region
3190 160th Avenue SE
Bellevue, Washington 98008-5452

Subject: **Second Semi-annual 2017 Groundwater Monitoring and Sampling Report**
Chevron Service Station No. 97451
2626 Bellevue Way NE
Bellevue, Washington

Dear Mr. Myers:

Leidos, Inc. (Leidos) on behalf of Chevron Environmental Management Company (CEMC), prepared this letter summarizing the second semi-annual 2017 groundwater monitoring and sampling event at Chevron Service Station No. 97451 (the site) located in Bellevue, Washington (Figure 1).

FIELD ACTIVITIES

The monitoring and sampling event was conducted by Gettler-Ryan, Inc. (Gettler-Ryan) on October 19, 2017. Gettler-Ryan collected depth-to-groundwater measurements and checked for the presence of separate phase hydrocarbons (SPH) in five monitoring wells on site. SPH were observed in monitoring well MW-2.

Groundwater samples were collected from three of the five monitoring wells (monitoring well VE-2 had insufficient water for sample collection) and submitted under chain of custody (COC) procedures to Eurofins Lancaster Laboratories, Inc. in Lancaster, Pennsylvania for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (TPH-GRO) by Northwest Method NWTPH-Gx;
- TPH as diesel-range organics (TPH-DRO) and TPH as heavy oil-range organics (TPH-HRO) by Northwest Method NWTPH-Dx with silica-gel cleanup; and
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency Method 8021B.

A laboratory-supplied trip blank (QA) was submitted to the laboratory and analyzed for TPH-GRO and BTEX to provide quality assurance. Field data sheets are provided in the Gettler-Ryan groundwater monitoring and sampling data package (Attachment A).

FINDINGS

Historical groundwater elevation data, SPH thickness data, and laboratory analytical results are summarized in Tables 1 and 2. The laboratory analysis report is provided as Attachment B. Hydrographs for monitoring wells MW-2 and MW-3 are provided as Attachment C.

During this monitoring event, groundwater elevations ranged from 83.00 feet in monitoring well MW-3 to 87.96 feet in monitoring well VE-2 based on an arbitrary benchmark elevation of 100 feet. Groundwater flow was toward the northeast at a gradient of approximately 0.02 feet per foot. A potentiometric map is provided as Figure 2.

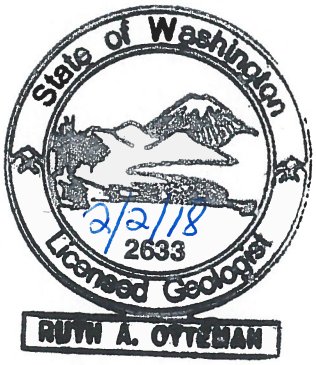
SPH were detected at a thickness of approximately 0.04 feet in monitoring well MW-2. Concentrations of chemicals of concern in monitoring well MW-1, MW-3, and MW-4 were below the laboratory detection limits.

Per the request of Washington State Department of Ecology, groundwater samples will not be analyzed with silica gel cleanup for the TPH-DRO and TPH-HRO analyses in 2018.

If you have any questions or comments, please contact me at (425) 482-3328 or via email at ottemanr@leidos.com.

Sincerely,

Leidos, Inc.



Ruth Otteman, LG #2633
Project Manager

Enclosures:
Figure 1 – Vicinity Map
Figure 2 – Potentiometric Map
Table 1 – Groundwater Monitoring Data and Analytical Results
Table 2 – Separate Phase Hydrocarbon Thickness/Removal Data
Attachment A – Groundwater Monitoring and Sampling Data Package
Attachment B – Laboratory Analysis Report
Attachment C – Hydrographs

cc: Mr. Mark Horne – Chevron Environmental Management Company
6001 Bollinger Canyon Road, San Ramon, California 94583-5186
Project File

REPORT LIMITATIONS

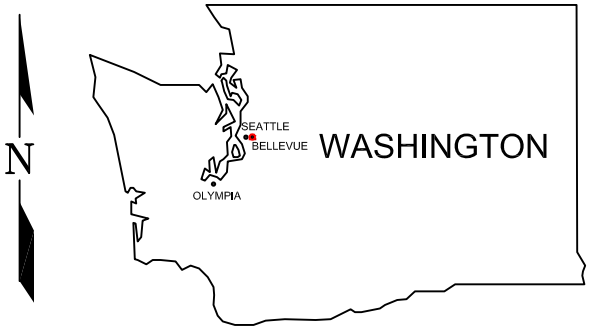
This technical document was prepared on behalf of CEMC and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by Leidos. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and Leidos shall have no responsibility or liability for the consequences thereof.

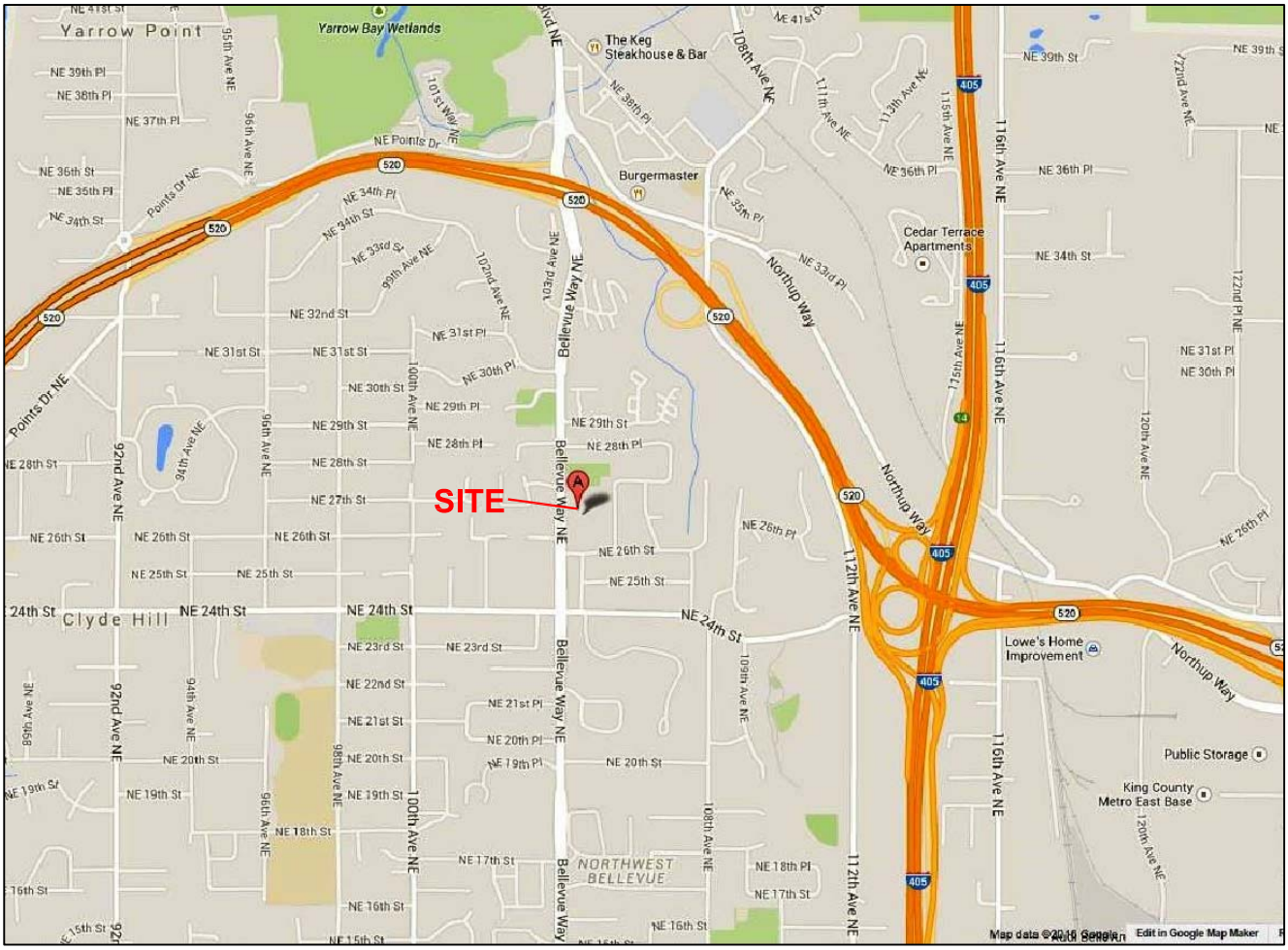
Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from CEMC and others. Leidos has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of Leidos site visits or site work and cannot be applied to conditions and features of which Leidos is unaware and has not had the opportunity to evaluate.

All sources of information on which Leidos has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied upon by Leidos in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.





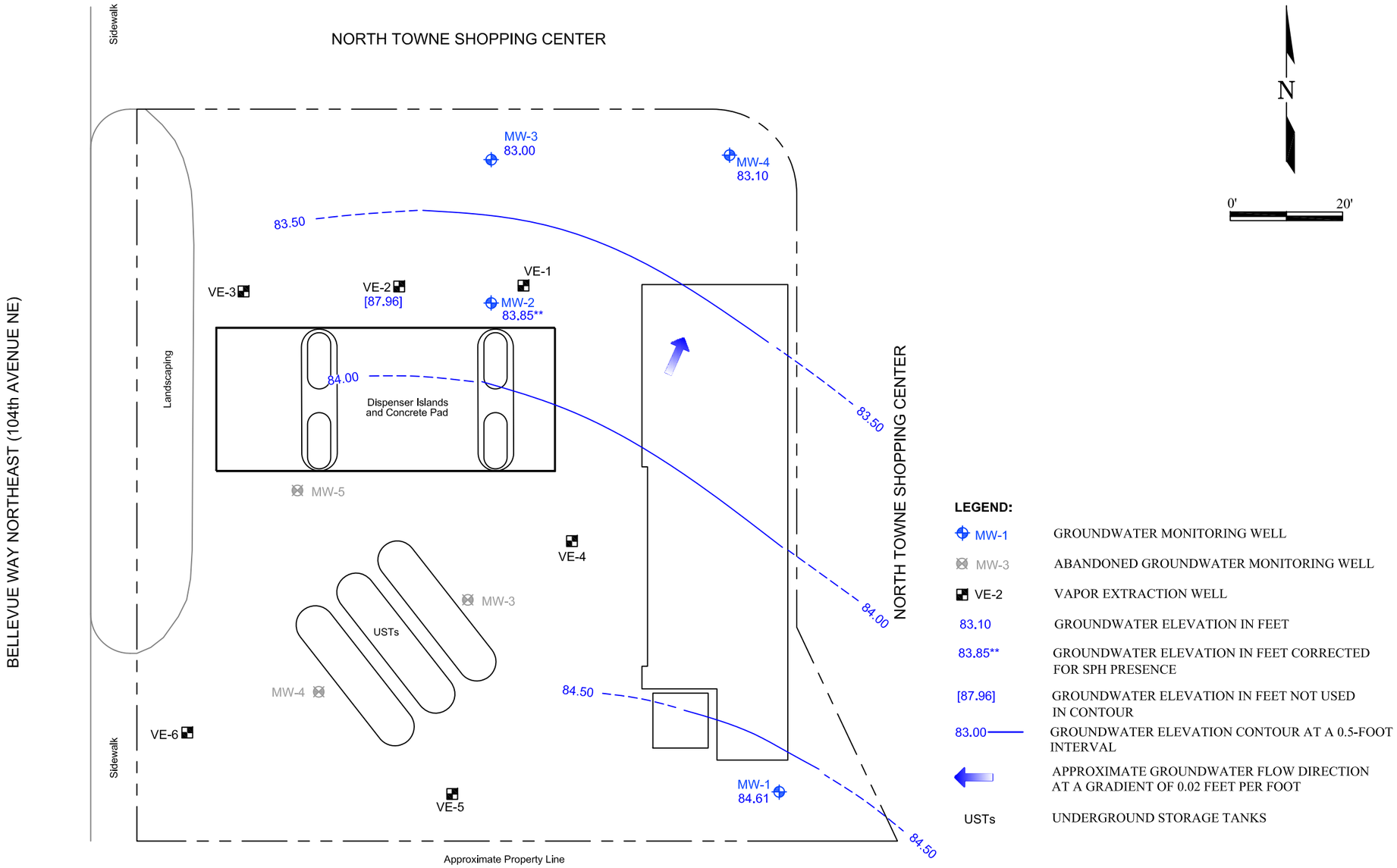
leidos

Chevron Service Station No. 97451
2626 Bellevue Way NE
Bellevue, Washington

FIGURE 1
Vicinity Map

DATE: 3/16/2015

DRAWING: 9-7451 Vicinity Map.dwg



leidos

Chevron Service Station No. 97451
2626 Bellevue Way NE
Bellevue, Washington

FIGURE 2
Potentiometric Map
October 19, 2017

DATE: 11/16/2017 | DRAWING: 9-7451_SiteMap.dwg

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
CHEVRON SERVICE STATION NO. 97451
2626 Bellevue Way Northeast, Bellevue, Washington
Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
MW-1															
3/29/91	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--
8/22/91	97.15	--	11.92	--	85.23	--	--	--	--	--	--	--	--	--	--
12/3/91	97.15	--	13.07	--	84.08	--	--	ND	ND	ND	ND	ND	--	--	--
6/22/92	97.15	--	11.15	--	86.00	--	--	ND	ND	ND	ND	ND	--	--	ND
6/21/93	97.15	--	10.85	--	86.30	--	--	ND	ND	ND	ND	ND	--	7.9	--
12/9/93	97.15	--	13.57	--	83.58	--	--	ND	ND	ND	ND	ND	--	3.6	--
6/15/94	97.15	--	10.84	--	86.31	--	--	ND	ND	ND	ND	ND	--	--	6.7
12/12/94	97.15	--	13.30	--	83.85	--	--	ND	ND	ND	ND	ND	--	--	ND
6/9/95	97.15	--	9.50	--	87.65	--	--	ND	ND	ND	ND	ND	--	3.3	--
12/29/95	97.15	--	8.00	--	89.15	--	--	ND	0.84	1.8	ND	1.9	--	--	--
6/4/96	97.15	--	10.40	--	86.75	--	--	--	--	--	--	--	--	--	--
3/20-21/00	97.15	--	9.81	0.00	87.34	--	--	--	--	--	--	--	--	--	--
12/6/00	97.15	--	13.62	0.00	83.53	--	--	--	--	--	--	--	--	--	--
3/21/01	97.15	--	13.26	0.00	83.89	--	--	--	--	--	--	--	--	--	--
6/14/01	97.15	--	11.96	0.00	85.19	--	--	--	--	--	--	--	--	--	--
9/19/01	97.15	--	13.38	0.00	83.77	--	--	--	--	--	--	--	--	--	--
12/5/01	97.15	--	12.84	0.00	84.31	--	--	--	--	--	--	--	--	--	--
3/7/02	97.15	--	10.13	0.00	87.02	--	--	--	--	--	--	--	--	--	--
6/14/02	97.15	--	10.29	0.00	86.86	--	--	--	--	--	--	--	--	--	--
10/1/02	97.15	--	12.09	0.00	85.06	--	--	--	--	--	--	--	--	--	--
12/18/02	97.15	--	13.91	0.00	83.24	--	--	--	--	--	--	--	--	--	--
3/1/03	97.15	--	12.88	0.00	84.27	--	--	--	--	--	--	--	--	--	--
6/12/03	97.15	--	10.92	0.00	86.23	--	--	--	--	--	--	--	--	--	--
8/29/03	97.15	--	12.54	0.00	84.61	--	--	--	--	--	--	--	--	--	--
12/10/03	97.15	--	14.34	0.00	82.81	--	--	--	--	--	--	--	--	--	--
3/16/04	97.15	--	12.63	0.00	84.52	--	--	--	--	--	--	--	--	--	--
6/14/04	97.15	--	12.58	0.00	84.57	--	--	--	--	--	--	--	--	--	--
9/4/04	97.15	--	12.97	0.00	84.18	--	--	--	--	--	--	--	--	--	--
12/6/04	97.15	--	12.83	0.00	84.32	--	--	--	--	--	--	--	--	--	--
3/4/05	97.15	--	13.48	0.00	83.67	--	--	--	--	--	--	--	--	--	--
7/6/05	97.15	--	12.55	0.00	84.60	--	--	--	--	--	--	--	--	--	--
8/29/05	97.15	--	13.22	0.00	83.93	--	--	--	--	--	--	--	--	--	--
12/3/05	97.15	--	14.56	0.00	82.59	--	--	--	--	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
CHEVRON SERVICE STATION NO. 97451
2626 Bellevue Way Northeast, Bellevue, Washington
Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
MW-1 (cont)															
9/6/06 NP	97.15	--	12.43	0.00	84.72	<80	<100	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
2/6/07 NP	97.15	--	10.85	0.00	86.30	--	--	140	<0.5	<0.5	<0.5	8.3	<2.5	--	--
8/27/07 NP	97.15	--	12.28	0.00	84.87	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/3/07	97.15	--	MONITORED/SAMPLED SEMIANNUALLY					--	--	--	--	--	--	--	--
2/23/08 NP	97.15	--	12.25	0.00	84.90	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/2/08 NP	97.15	--	13.58	0.00	83.57	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/1/08	97.15	--	MONITORED/SAMPLED SEMIANNUALLY					--	--	--	--	--	--	--	--
9/8/09 NP	97.15	--	13.25	0.00	83.90	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/19/10 NP	97.15	--	10.90	0.00	86.25	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
5/27/10	97.15	--	MONITORED/SAMPLED SEMIANNUALLY					--	--	--	--	--	--	--	--
9/30/10	97.15	--	12.03	0.00	85.12	<29	130	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/8/11	97.15	--	8.67	0.00	88.48	<30	<69	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/2/11	97.15	--	11.50	0.00	85.65	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/13/12	97.15	--	10.70	0.00	86.45	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
6/8/12	97.15	--	MONITORED/SAMPLED SEMIANNUALLY					--	--	--	--	--	--	--	--
9/20/12	97.15	--	11.83	0.00	85.32	<30	<69	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/8/13	97.15	--	9.46	0.00	87.69	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
6/7/13	97.15	--	9.90	0.00	87.25	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/7/13	97.15	--	12.12	0.00	85.03	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/12/13	97.15	--	13.56	0.00	83.59	<32	<74	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/27/14	97.15	--	11.00	0.00	86.15	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
6/24/14	97.15	--	10.18	0.00	86.97	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/29/14	97.15	--	13.76	0.00	83.39	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/12/14	97.15	--	13.53	0.00	83.62	<28	<66	<50	<0.5	<0.5	0.6	3.4	<2.5	--	--
3/13/15	97.15	--	11.01	0.00	86.14	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
10/21/15	97.15	--	15.29	0.00	81.86	<29	<69	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
4/20/16	97.15	--	9.57	0.00	87.58	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
10/15/16	97.15	--	13.54	0.00	83.61	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
5/19/17	97.15	--	8.55	0.00	88.60	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
10/19/17	97.15	--	12.54	0.00	84.61	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
MW-2															
3/29/91	--	--	--	--	--	--	--	**26,000**	**1,950**	14	ND	**1,860**	--	--	**27**
8/22/91	97.77	--	12.34	--	85.43	--	--	--	--	--	--	--	--	--	--
12/3/91	97.77	--	12.33	--	85.44	--	--	ND	**157**	ND	ND	ND	--	--	--

leidos

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
CHEVRON SERVICE STATION NO. 97451
2626 Bellevue Way Northeast, Bellevue, Washington
Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
MW-2 (cont)															
6/22/92	97.77	--	11.78	--	85.99	--	--	ND	**39.8**	ND	ND	ND	--	--	ND
6/21/93	97.77	--	10.45	--	87.32	--	--	ND	ND	ND	ND	ND	--	**40**	--
12/9/93	97.77	--	13.65	--	84.12	--	--	210	**41**	ND	21	0.6	--	5.1	--
6/15/94	97.77	--	12.11	--	85.66	--	--	230	3.9	ND	3.7	ND	--	--	8.8
12/12/94	97.77	--	12.82	--	84.95	--	--	740	**62**	1.1	57	4.6	--	--	3.4
6/9/95	97.77	--	9.70	--	88.07	--	--	ND	3.3	ND	ND	ND	--	5.0	--
12/29/95	97.77	--	12.20	--	85.57	--	--	**830**	**1,000**	37	37	110	--	--	--
6/4/96	97.77	--	10.00	--	87.77	--	--	**80,800**	**7,620**	**7,430**	**2,110**	**9,150**	--	--	--
3/20-21/00	97.77	14.40	17.13	2.73	82.82	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
12/06/00	97.77	14.98	16.05	1.07	82.58	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
3/21/01	97.77	15.10	16.08	0.98	82.47	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
6/14/01	97.77	13.39	14.74	1.35	84.11	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
9/19/01	97.77	14.20	15.02	0.82	83.41	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
12/5/01	97.77	14.10	15.00	0.90	83.49	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
3/7/02	97.77	10.45	10.68	0.23	87.27	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
6/14/02	97.77	10.62	11.00	0.38	87.07	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
8/6/02	97.77	11.34	11.74	0.40	86.35	--	--	--	--	--	--	--	--	--	--
8/14/02	97.77	11.39	11.77	0.38	86.30	--	--	--	--	--	--	--	--	--	--
10/1/02	97.77	12.52	13.02	0.50	85.15	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--		--	--	--	--
10/11/02	97.77	14.21	14.63	0.42	83.48	--	--	--	--	--	--	--	--	--	--
11/7/02	97.77	12.58	13.10	0.52	85.09	--	--	--	--	--	--	--	--	--	--
12/18/02	97.77	14.30	14.71	0.41	83.39	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
1/18/03	97.77	12.54	13.02	0.48	85.13	--	--	--	--	--	--	--	--	--	--
2/12/03	97.77	12.51	12.97	0.46	85.17	--	--	--	--	--	--	--	--	--	--
3/1/03	97.77	13.33	13.72	0.39	84.36	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
6/12/03	97.77	10.75	11.13	0.38	86.94	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
7/6/03	97.77	13.49	13.86	0.37	84.21	--	--	--	--	--	--	--	--	--	--
8/26/03	97.77	13.04	13.48	0.44	84.64	--	--	--	--	--	--	--	--	--	--
8/29/03	97.77	12.58	13.00	0.42	85.11	--	--	--	--	--	--	--	--	--	--
9/30/03	97.77	12.95	13.36	0.41	84.74	--	--	--	--	--	--	--	--	--	--
11/7/03	97.77	12.88	13.26	0.38	84.81	--	--	--	--	--	--	--	--	--	--
12/10/03	97.77	13.99	14.29	0.30	83.72	--	--	--	--	--	--	--	--	--	--
1/5/04	97.77	12.73	13.09	0.36	84.97	--	--	--	--	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]

CHEVRON SERVICE STATION NO. 97451

2626 Bellevue Way Northeast, Bellevue, Washington

Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
MW-2 (cont)															
3/4/04	97.77	12.15	12.46	0.31	85.56	--	--	--	--	--	--	--	--	--	--
3/16/04	97.77	12.22	12.52	0.30	85.49	--	--	--	--	--	--	--	--	--	--
4/26/04	97.77	12.77	13.06	0.29	84.94	--	--	--	--	--	--	--	--	--	--
5/17/04	97.77	12.90	13.19	0.29	84.81	--	--	--	--	--	--	--	--	--	--
6/14/04	97.77	11.78	12.11	0.33	85.92	--	--	--	--	--	--	--	--	--	--
8/16/04	97.77	12.97	13.26	0.29	84.74	--	--	--	--	--	--	--	--	--	--
9/4/04	97.77	12.70	12.91	0.21	85.03	--	--	--	--	--	--	--	--	--	--
11/2/04	97.77	12.49	12.72	0.23	85.23	--	--	--	--	--	--	--	--	--	--
12/6/04	97.77	13.79	14.03	0.24	83.93	--	--	--	--	--	--	--	--	--	--
3/4/05	97.77	13.34	13.44	0.10	84.41	--	--	--	--	--	--	--	--	--	--
5/11/05	97.77	12.53	12.83	0.30	85.18	--	--	--	--	--	--	--	--	--	--
7/6/05	97.77	12.44	12.70	0.26	85.28	--	--	--	--	--	--	--	--	--	--
8/5/05	97.77	12.60	12.81	0.21	85.13	--	--	--	--	--	--	--	--	--	--
8/15/05	97.77	13.20	13.33	0.13	84.54	--	--	--	--	--	--	--	--	--	--
8/29/05	97.77	13.15	13.35	0.20	84.58	--	--	--	--	--	--	--	--	--	--
9/26/05	97.77	12.77	12.92	0.15	84.97	--	--	--	--	--	--	--	--	--	--
10/28/05	97.77	12.47	12.65	0.18	85.26	--	--	--	--	--	--	--	--	--	--
12/3/05	97.77	14.30	14.53	0.23	83.42	--	--	--	--	--	--	--	--	--	--
2/4/06	97.77	12.17	12.38	0.21	85.56	--	--	--	--	--	--	--	--	--	--
6/20/06	97.77	12.21	12.38	0.17	85.53	--	--	--	--	--	--	--	--	--	--
9/6/06	97.77	13.05	13.22	0.17	84.69	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--
11/17/06	97.77	14.20	14.28	0.08	83.55	--	--	--	--	--	--	--	--	--	--
2/6/07	97.77	11.68	11.75	0.07	86.08	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
6/12/07	97.77	11.68	11.73	0.05	86.08	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
8/27/07	97.77	12.38	12.44	0.06	85.38	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
12/3/07	97.77	14.14	14.21	0.07	83.62	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
2/23/08	97.77	14.58	14.62	0.04	83.18	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
6/5/08	97.77	11.55	11.61	0.06	86.21	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
9/2/08	97.77	14.66	14.68	0.02	83.11	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
12/01/08	97.77	15.40	15.57	0.17	82.34	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
3/21/09	97.77	13.50	13.58	0.08	84.25	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
6/3/09	97.77	11.98	12.28	0.30	85.73	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
3/19/10	97.77	11.74	11.76	0.02	86.03	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
CHEVRON SERVICE STATION NO. 97451
2626 Bellevue Way Northeast, Bellevue, Washington
Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
MW-2 (cont)															
5/27/10	97.77	11.11	11.17	0.06	86.65	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
9/30/10	97.77	12.59	12.68	0.09	85.16	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
11/20/10	97.77	12.90	12.99	0.09	84.85	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
3/8/11	97.77	9.71	9.74	0.03	88.05	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
9/2/11	97.77	12.20	12.30	0.10	85.55	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
12/09/11	97.77	13.12	13.22	0.10	84.63	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
3/13/12	97.77	12.15	12.32	0.17	85.59	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
6/8/12	97.77	0.00	12.60	0.00	85.17	MONITORING ONLY		--	--	--	--	--	--	--	--
9/20/12	97.77	0.00	12.28	0.00	85.49	**6,100**	**530**	**72,000**	**470**	290	**1,100**	**14,000**	**69**	--	--
12/13/12	97.77	SURFACTANT INJECTION[8]				**18,000**	<700	**230,000**	**750**	**2,000**	350	**25,000**	--	--	--
3/8/13	97.77	10.33	10.35	0.02	87.44	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
6/7/13	97.77	10.42	10.44	0.02	87.35	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
9/7/13	97.77	12.80	12.88	0.08	84.95	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
12/12/13	97.77	14.60	14.72	0.12	83.15	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
3/27/14	97.77	13.55	13.60	0.05	84.21	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
6/24/14	97.77	11.80	11.82	0.02	85.97	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
9/29/14	97.77	14.10	14.37	0.27	83.62	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
12/12/14	97.77	14.55	14.58	0.03	83.21	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
3/13/15	97.77	0.00	11.80	0.00	85.97	**720**	<67	**2,400**	**280**	13	9.4	15	<26	--	--
10/21/15	97.77	15.89	16.29	0.40	81.80	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
4/20/16	97.77	0.00	10.80	0.00	86.97	**85,000**	<6,700	**420,000**	**240**	**200**	**1700**	**15,000**	<50	--	--
10/15/16	97.77	14.47	14.65	0.18	83.26	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
5/19/17	97.77	8.70	8.72	0.02	89.07	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
10/19/17	97.77	13.91	13.95	0.04	83.85	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--
MW-3															
12/6/00	97.73	--	15.74	0.00	81.99	--	--	**4,310**	**695**	17.8	399	154	**727**	--	--
3/21/01	97.73	--	15.94	0.00	81.79	--	--	**6,900**	**863**	19.9	553	245	**747**	--	--
6/14/01	97.73	--	14.83	0.00	82.90	--	--	503	**51.0**	1.35	17.2	7.44	**740**	--	--
9/19/01	97.73	--	15.51	0.00	82.22	--	--	**2,600**	**279**	5.20	226	88.4	**505**	--	--
9/19/01 (R)	97.73	--	--	--	--	--	--	--	--	--	--	--	**628**	--	--
12/5/01	97.73	--	15.25	0.00	82.48	--	--	**4,430**	**553**	13.5	406	236	**594**	--	--
12/5/01 (R)	97.73	--	--	--	--	--	--	--	--	--	--	--	**431**	--	--
3/7/02 NP	97.73	--	11.49	0.00	86.24	--	--	**46,000**	**250**	180	650	**5,100**	<50	--	--
6/14/02 NP	97.73	--	11.01	0.00	86.72	--	--	**54,000**	**130**	180	**800**	**7,400**	<2.5	--	--

leidos

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
CHEVRON SERVICE STATION NO. 97451
2626 Bellevue Way Northeast, Bellevue, Washington
Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
MW-3 (cont)															
10/1/02 NP	97.73	--	13.06	0.00	84.67	--	--	**21,000**	**190**	160	590	**2,200**	**110**	--	--
12/18/02 NP	97.73	--	14.81	0.00	82.92	--	--	**930**	**20**	4.1	33	39	**280**	--	--
3/1/03 NP	97.73	--	13.86	0.00	83.87	--	--	**6,100**	**130**	57	310	760	**170**	--	--
6/12/03 NP	97.73	--	11.34	0.00	86.39	--	--	**26,000**	**19**	29	240	**1,400**	<2.5	--	--
8/29/03 NP	97.73	--	13.28	0.00	84.45	--	--	**6,500**	**57**	40	260	610	**56**	--	--
12/10/03 NP	97.73	--	15.15	0.00	82.58	--	--	<50	<0.5	<0.5	<0.5	<1.5	**100**	--	--
3/16/04 NP	97.73	--	13.23	0.00	84.50	--	--	790	**7.1**	2.1	51	38	**58**	--	--
6/14/04 NP	97.73	--	13.03	0.00	84.70	--	--	**1,100**	**6.0**	3.0	36	120	**47**	--	--
9/4/04 NP	97.73	--	13.59	0.00	84.14	--	--	<50	1	<0.5	<0.5	<1.5	12	--	--
12/6/04 NP	97.73	--	15.12	0.00	82.61	--	--	<50	<0.5	<0.5	<0.5	<1.5	**47**	--	--
3/4/05 NP	97.73	--	14.38	0.00	83.35	--	--	<50	<0.5	<0.5	<0.5	<1.5	**43**	--	--
7/6/05 NP	97.73	--	13.12	0.00	84.61	--	--	<50	<0.5	<0.5	<0.5	<1.5	**32**	--	--
8/29/05 NP	97.73	--	13.75	0.00	83.98	--	--	78	1.1	<0.5	3.8	1.6	**21**	--	--
12/3/05 NP	97.73	--	15.37	0.00	82.36	--	--	<48	<0.5	<0.5	1.3	<1.5	<2.5	--	--
9/6/06	97.73	--	13.36	0.00	84.37	<80	<100	**1,100**	2.3	2.9	40	67	11	--	--
2/6/07 NP	97.73	--	12.67	0.00	85.06	--	--	**1,300**	3.9	3.1	35	85	11	--	--
8/27/07 NP	97.73	--	13.14	0.00	84.59	--	--	120	<0.5	<0.5	1.5	6.5	<2.5	--	--
12/3/07	97.73	--	MONITORED/SAMPLED SEMIANNUALLY					--	--	--	--	--	--	--	--
12/1/08	97.73	--	MONITORED/SAMPLED SEMI-ANNUALLY					--	--	--	--	--	--	--	--
3/21/09 NP	97.73	--	15.05	0.00	82.68	--	--	610	**61**	2.9	4.5	2.8	11	--	--
6/3/09	97.73	--	MONITORED/SAMPLED SEMIANNUALLY					--	--	--	--	--	--	--	--
9/8/09 NP	97.73	--	15.32	0.00	82.41	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/19/10 NP	97.73	--	13.32	0.00	84.41	--	--	62	0.7	<0.5	<0.5	<1.5	8.7	--	--
5/27/10	97.73	--	MONITORED/SAMPLED SEMIANNUALLY					--	--	--	--	--	--	--	--
9/30/10	97.73	--	13.91	0.00	83.82	33	230	<50	<0.5	<0.5	0.50	<1.5	7.10	--	--
3/8/11	97.73	--	11.18	0.00	86.55	340	210	**3,600**	**12**	10	130	330	<10	--	--
9/2/11	97.73	--	12.85	0.00	84.88	95	<68	**950**	4.3	2.4	51	73	3.2	--	--
3/13/12	97.73	--	13.30	0.00	84.43	33	<70	590	4.7	0.7	11	22	7.8	--	--
6/8/12	97.73	--	MONITORED/SAMPLED SEMIANNUALLY					--	--	--	--	--	--	--	--
9/20/12	97.73	--	13.26	0.00	84.47	61	<67	760	**19**	1.3	25	11	7.2	--	--
12/11/12	97.73	--	SURFACTANT INJECTION[7]			270	**570**	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
12/13/12	97.73	--	SURFACTANT INJECTION[8]			160	410	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
3/8/13	97.73	--	11.64	0.00	86.09	140	<67	**3,400**	**14**	7.6	140	280	12	--	--

leidos

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]

CHEVRON SERVICE STATION NO. 97451

2626 Bellevue Way Northeast, Bellevue, Washington

Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
MW-3 (cont)															
6/7/13	97.73	--	11.14	0.00	86.59	38	<66	**1,900**	**7.3**	5.1	88	190	5.8	--	--
9/7/13	97.73	--	13.60	0.00	84.13	<29	<67	120	1.4	<0.5	12	1.8	5.2	--	--
12/12/13	97.73	--	15.72	0.00	82.01	<30	<69	66	**5.6**	<0.5	1.5	<1.5	4.9	--	--
3/27/14	97.73	--	14.40	0.00	83.33	<29	<67	280	**9.8**	<0.5	<0.5	<1.5	5.5	--	--
6/24/14	97.73	--	12.58	0.00	85.15	33	<67	410	1.8	0.6	12	3.6	5.1	--	--
9/29/14	97.73	--	15.10	0.00	82.63	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/12/14	97.73	--	15.68	0.00	82.05	<28	<66	<50	<0.5	<0.5	3.2	19	<2.5	--	--
3/13/15	97.73	--	13.91	0.00	83.82	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
10/21/15	97.73	--	16.81	0.00	80.92	55	<67	**1,900**	**46**	2.3	5.6	5.5	<2.5	--	--
4/20/16	97.73	--	11.95	0.00	85.78	88	<66	**1,200**	**6.8**	0.8	9.0	32.0	<6.0	--	--
10/15/16	97.73	--	15.56	0.00	82.17	<28	<66	<50	0.6	<0.5	<0.5	<1.5	<2.5	--	--
5/19/17	97.73	--	9.26	0.00	88.47	210	<66	**2,000**	**13**	<0.5	0.6	3.5	--	--	--
10/19/17	97.73	--	14.73	0.00	83.00	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
MW-4															
12/6/00	96.85	--	14.94	0.00	81.91	--	--	ND	ND	ND	ND	ND	**105**	--	--
3/21/01	96.85	--	15.15	0.00	81.70	--	--	ND	ND	ND	ND	ND	**157**	--	--
6/14/01	96.85	--	14.09	0.00	82.76	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	**110**	--	--
9/19/01	96.85	--	14.82	0.00	82.03	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	**77.5**	--	--
9/19/01(R)	96.85	--	--	--	--	--	--	--	--	--	--	--	**92**	--	--
12/5/01	96.85	--	14.68	0.00	82.17	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	**95.4**	--	--
12/5/01(R)	96.85	--	--	--	--	--	--	--	--	--	--	--	**95.9**	--	--
3/7/02 NP	96.85	--	11.04	0.00	85.81	--	--	<50	<0.50	<0.50	<0.50	<1.5	**48**	--	--
6/14/02 NP	96.85	--	10.84	0.00	86.01	--	--	<50	<0.50	<0.50	<0.50	<1.5	**35**	--	--
10/1/02 NP	96.85	--	12.32	0.00	84.53	--	--	<50	<0.50	<0.50	<0.50	<1.5	**25**	--	--
12/18/02 NP	96.85	--	14.22	0.00	82.63	--	--	<50	<0.50	<0.50	<0.50	<1.5	12	--	--
3/1/03 NP	96.85	--	13.52	0.00	83.33	--	--	<50	<0.50	<0.50	<0.50	<1.5	**59**	--	--
6/12/03 NP	96.85	--	11.55	0.00	85.30	--	--	56	<0.5	<0.5	<0.5	<1.5	**48**	--	--
8/29/03 NP	96.85	--	12.98	0.00	83.87	--	--	<50	<0.5	<0.5	<0.5	<1.5	**26**	--	--
12/10/03 NP	96.85	--	14.84	0.00	82.01	--	--	<50	<0.5	<0.5	<0.5	<1.5	**26**	--	--
3/16/04 NP	96.85	--	12.92	0.00	83.93	--	--	<50	<0.5	<0.5	<0.5	<1.5	**36**	--	--
6/14/04 NP	96.85	--	12.90	0.00	83.95	--	--	<50	<0.5	<0.5	<0.5	<1.5	**27**	--	--
9/4/04 NP	96.85	--	13.28	0.00	83.57	--	--	<50	<0.5	<0.5	<0.5	<1.5	15	--	--
12/6/04 NP	96.85	--	14.70	0.00	82.15	--	--	<50	<0.5	<0.5	<0.5	<1.5	**22**	--	--
3/4/05 NP	96.85	--	13.89	0.00	82.96	--	--	<50	<0.5	<0.5	<0.5	<1.5	**23**	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]

CHEVRON SERVICE STATION NO. 97451

2626 Bellevue Way Northeast, Bellevue, Washington

Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
MW-4 (cont)															
7/6/05 NP	96.85	--	12.88	0.00	83.97	--	--	<50	<0.5	<0.5	<0.5	<1.5	13	--	--
8/29/05 NP	96.85	--	13.50	0.00	83.35	--	--	<50	<0.5	<0.5	<0.5	<1.5	8.4	--	--
12/3/05 NP	96.85	--	14.98	0.00	81.87	--	--	<48	<0.5	<0.5	<0.5	<1.5	8.4	--	--
9/6/06	96.85	--	13.26	0.00	83.59	<80	<100	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
2/6/07 NP	96.85	--	12.39	0.00	84.46	--	--	<48	<0.5	<0.5	<0.5	<1.5	5.9	--	--
2/23/08 NP	96.85	--	14.70	0.00	82.15	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/2/08 NP	96.85	--	14.51	0.00	82.34	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/1/08	96.85	--	MONITORED/SAMPLED SEMIANNUALLY					--	--	--	--	--	--	--	--
3/21/09 NP	96.85	--	13.78	0.00	83.07	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
6/3/09	96.85	--	MONITORED/SAMPLED SEMIANNUALLY					--	--	--	--	--	--	--	--
9/8/09 NP	96.85	--	14.23	0.00	82.62	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/19/10 NP	96.85	--	12.41	0.00	84.44	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
5/27/10	96.85	--	MONITORED/SAMPLED SEMI-ANNUALLY					--	--	--	--	--	--	--	--
9/30/10	96.85	--	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
3/8/11	96.85	--	10.63	0.00	86.22	48	120	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/2/11	96.85	--	11.95	0.00	84.90	<29	<69	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/13/12	96.85	--	12.50	0.00	84.35	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
6/8/12	96.85	--	MONITORED/SAMPLED SEMIANNUALLY					--	--	--	--	--	--	--	--
9/20/12	96.85	--	12.35	0.00	84.50	<30	<69	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/11/12	96.85	--	SURFACTANT INJECTION[7]			220	480	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
12/13/12	96.85	--	SURFACTANT INJECTION[8]			<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
3/8/13	96.85	--	12.36	0.00	84.49	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
6/7/13	96.85	--	10.56	0.00	86.29	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/7/13	96.85	--	12.42	0.00	84.43	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/12/13	96.85	--	14.38	0.00	82.47	<30	<71	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/27/14	96.85	--	13.09	0.00	83.76	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
6/24/14	96.85	--	11.49	0.00	85.36	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/29/14	96.85	--	13.93	0.00	82.92	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/12/14	96.85	--	14.34	0.00	82.51	<28	<66	<50	<0.5	<0.5	1.6	9.6	<2.5	--	--
3/13/15	96.85	--	12.98	0.00	83.87	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
10/21/15	96.85	--	15.76	0.00	81.09	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
4/20/16	96.85	--	11.09	0.00	85.76	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
10/15/16	96.85	--	14.49	0.00	82.36	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
5/19/17	96.85	--	9.11	0.00	87.74	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
10/19/17	96.85	--	13.75	0.00	83.10	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--

leidos

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
CHEVRON SERVICE STATION NO. 97451
2626 Bellevue Way Northeast, Bellevue, Washington
Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
VE-1															
8/22/91	97.42	--	11.99	--	85.43	--	--	--	--	--	--	--	--	--	--
12/3/91	97.42	--	9.45	--	87.97	--	--	ND	ND	ND	ND	ND	--	--	--
6/22/92	97.42	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
6/21/93	97.42	--	10.01	--	87.41	--	--	ND	ND	ND	ND	ND	--	**520**	--
12/9/93	97.42	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
6/15/94	97.42	--	11.90	--	85.52	--	--	--	--	--	--	--	--	--	--
12/12/94	97.42	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
6/9/95	97.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/29/95	97.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/4/96	97.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/20-21/00	97.42	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
12/6/00	97.42	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
3/21/01	97.42	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
6/14/01	97.42	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
9/19/01	97.42	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
12/5/01	97.42	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED															
VE-2															
8/22/91	97.46	--	10.47	--	86.99	--	--	--	--	--	--	--	--	--	--
12/3/91	97.46	--	5.64	--	91.82	--	--	ND	ND	ND	ND	ND	--	--	--
6/22/92	97.46	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
6/21/93	97.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/9/93	97.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/9/95	97.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/29/95	97.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/4/96	97.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/20-21/00	97.46	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
12/6/00	97.46	--	6.41	0.00	91.05	--	--	--	--	--	--	--	--	--	--
3/21/01	97.46	--	6.50	0.00	90.96	--	--	--	--	--	--	--	--	--	--
6/14/01	97.46	--	6.25	0.00	91.21	--	--	--	--	--	--	--	--	--	--
9/19/01	97.46	--	7.80	0.00	89.66	--	--	--	--	--	--	--	--	--	--
12/5/01	97.46	--	4.29	0.00	93.17	--	--	--	--	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]

CHEVRON SERVICE STATION NO. 97451

2626 Bellevue Way Northeast, Bellevue, Washington

Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
VE-2 (cont.)															
6/7/13	97.46	--	9.32	0.00	88.14	INSUFFICIENT WATER FOR SAMPLING			--	--	--	--	--	--	--
9/7/13	97.46	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
12/12/13	97.46	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
3/27/14	97.46	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
6/24/14	97.46	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
9/29/14	97.46	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
12/12/14	97.46	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
3/13/15	97.46	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
10/21/15	97.46	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
4/20/16	97.46	--	8.99	0.00	88.47	INSUFFICIENT WATER FOR SAMPLING			--	--	--	--	--	--	--
10/15/16	97.46	--	7.82	0.00	89.64	<30	98	220	<0.5	<0.5	0.70	8.7	<2.5	--	--
5/19/17	97.46	--	6.73	0.00	90.73	<28	<66	<50	0.7	<0.5	<0.5	<0.5	--	--	--
10/19/17	97.46	--	9.50	0.00	87.96	INSUFFICIENT WATER FOR SAMPLING			--	--	--	--	--	--	--
VE-3															
8/22/91	98.00	--	10.24	--	87.76	--	--	--	--	--	--	--	--	--	--
12/3/91	98.00	--	8.92	--	89.08	--	--	ND	ND	ND	ND	ND	--	--	--
6/22/92	98.00	--	10.37	--	87.63	--	--	ND	1.2	ND	ND	ND	--	--	ND
6/21/93	98.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/9/93	98.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/15/94	98.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/12/94	98.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/9/95	98.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/29/95	98.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/4/96	98.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/20-21/00	98.00	--	9.94	0.00	88.06	--	--	--	--	--	--	--	--	--	--
12/6/00	98.00	--	10.85	0.00	87.15	--	--	--	--	--	--	--	--	--	--
3/21/01	98.00	--	11.19	0.00	86.81	--	--	--	--	--	--	--	--	--	--
6/14/01	98.00	--	10.38	0.00	87.62	--	--	--	--	--	--	--	--	--	--
9/19/01	98.00	--	10.31	0.00	87.69	--	--	--	--	--	--	--	--	--	--
12/5/01	98.00	--	9.05	0.00	88.95	--	--	--	--	--	--	--	--	--	--

NOT MONITORED/SAMPLED

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
CHEVRON SERVICE STATION NO. 97451
2626 Bellevue Way Northeast, Bellevue, Washington
Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
VE-4															
8/22/91	98.05	--	11.34	--	86.71	--	--	--	--	--	--	--	--	--	--
12/3/91	98.05	--	8.81	--	89.24	--	--	ND	ND	ND	ND	ND	--	--	--
6/22/92	98.05	--	10.72	--	87.33	--	--	ND	ND	ND	ND	ND	--	--	--
6/21/93	98.05	--	9.45	--	88.60	--	--	ND	ND	ND	ND	ND	--	9	--
12/9/93	98.05	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
6/15/94	98.05	--	11.13	--	86.92	--	--	ND	ND	ND	ND	ND	--	--	8
12/12/94	98.05	--	11.50	--	86.55	--	--	ND	ND	ND	ND	ND	--	--	7.6
6/9/95	98.05	--	8.85	--	89.20	--	--	ND	0.56	ND	ND	ND	--	11	--
12/29/95	98.05	--	10.49	--	87.56	--	--	ND	**250**	ND	ND	1.3	--	--	--
6/4/96	98.05	--	8.55	--	89.50	--	--	58.1	**7.76**	ND	ND	ND	--	--	--
3/21/01	98.05	--	11.79	0.00	86.26	--	--	--	--	--	--	--	--	--	--
6/14/01	98.05	--	11.33	0.00	86.72	--	--	--	--	--	--	--	--	--	--
9/19/01	98.05	--	11.52	0.00	86.53	--	--	--	--	--	--	--	--	--	--
12/5/01	98.05	--	10.78	0.00	87.27	--	--	--	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED															
VE-5															
8/22/91	97.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/3/91	97.56	--	8.70	--	88.86	--	--	**5,000**	**119**	86	153	652	--	--	--
6/22/92	97.56	--	9.05	--	88.51	--	--	**16,000**	**323**	502	**720**	**3,200**	--	--	3
6/21/93	97.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/9/93	97.56	--	10.90	--	86.66	--	--	**18,000**	**120**	540	700	**2,800**	--	14	--
6/15/94	97.56	--	9.52	--	88.04	--	--	**23,000**	**49**	300	**930**	**4,000**	--	--	15
12/12/94	97.56	--	10.22	--	87.34	--	--	ND	ND	ND	ND	ND	--	--	ND
6/9/95	97.56	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--	--
12/29/95	97.56	--	8.17	--	89.39	--	--	**18,000**	**440**	130	**740**	**4,000**	--	--	--
6/4/96	97.56	--	6.65	--	90.91	--	--	**7,330**	**271**	156	233	911	--	--	--
3/20-21/00	97.56	--	7.85	0.00	89.71	--	--	**23,500**	**586**	173	**1,130**	**4,280**	**59.6**	--	--
12/6/00	97.56	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--	--	--
3/21/01	97.56	--	9.00	0.00	88.56	--	--	**21,900**	**83.5**	55.0	644	**2,160**	ND	--	--
6/14/01	97.56	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--	--	--
9/19/01	97.56	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--	--	--
12/5/01	97.56	INACCESSIBLE - VEHICLE PARKED OVER WELL					--	--	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED															

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
CHEVRON SERVICE STATION NO. 97451
2626 Bellevue Way Northeast, Bellevue, Washington
Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
VE-6															
8/22/91	98.60	--	10.19	--	88.41	--	--	--	--	--	--	--	--	--	--
12/3/91	98.60	--	9.75	--	88.85	--	--	ND	ND	ND	ND	ND	--	--	--
6/22/92	98.60	--	10.69	--	87.91	--	--	ND	ND	ND	ND	ND	--	--	ND
6/21/93	98.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/9/93	98.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/15/94	98.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/12/94	98.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/9/95	98.60	--	8.07	--	90.53	--	--	--	--	--	--	--	--	--	--
12/29/95	98.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/4/96	98.60	--	8.65	--	89.95	--	--	--	--	--	--	--	--	--	--
3/20-21/00	98.60	--	9.26	0.00	89.34	--	--	--	--	--	--	--	--	--	--
12/6/00	98.60	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
3/21/01	98.60	--	11.41	0.00	87.19	--	--	--	--	--	--	--	--	--	--
6/14/01	98.60	--	10.97	0.00	87.63	--	--	--	--	--	--	--	--	--	--
9/19/01	98.60	--	11.09	0.00	87.51	--	--	--	--	--	--	--	--	--	--
12/5/01	98.60	--	9.32	0.00	89.28	--	--	--	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED															
TB-1															
8/22/91	97.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/3/91	97.64	--	8.82	--	88.82	--	--	ND	**8**	1	ND	5	--	--	--
6/22/92	97.64	--	9.06	--	88.58	--	--	ND	1.2	ND	2	ND	--	--	ND
6/21/93	97.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/9/93	97.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/15/94	97.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/12/94	97.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/9/95	97.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/29/95	97.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/4/96	97.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/20-21/00	97.64	--	7.79	0.00	89.85	--	--	--	--	--	--	--	--	--	--
12/6/00	97.64	--	8.92	0.00	88.72	--	--	--	--	--	--	--	--	--	--
3/21/01	97.64	--	8.95	0.00	88.69	--	--	--	--	--	--	--	--	--	--
6/14/01	97.64	--	8.82	0.00	88.82	--	--	--	--	--	--	--	--	--	--
9/19/01	97.64	--	8.88	0.00	88.76	--	--	--	--	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]

CHEVRON SERVICE STATION NO. 97451

2626 Bellevue Way Northeast, Bellevue, Washington

Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
TB-1 (cont.)															
12/5/01	97.64	--	7.31	0.00	90.33	--	--	--	--	--	--	--	--	--	--
6/4/96	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
3/20-21/00	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--
12/6/00	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--
3/21/01	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--
6/14/01	--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--	--
9/19/01	--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--	--
12/5/01	--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--	--
3/7/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
NOT MONITORED/SAMPLED															
QA															
6/14/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
10/1/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
12/18/02	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
3/1/03	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
6/12/03	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
8/29/03	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/10/03	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/16/04	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
6/14/04	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/4/04	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/6/04	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/4/05	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
7/6/05	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
8/29/05[6]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/3/05	--	--	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
2/6/07	--	--	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
8/27/07	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
2/23/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/2/08	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/21/09	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/8/09	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/19/10	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
CHEVRON SERVICE STATION NO. 97451
2626 Bellevue Way Northeast, Bellevue, Washington
Concentrations reported in µg/L

Well ID/ Date	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE[3] (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	T. Lead	D. Lead
QA (cont)															
9/30/10	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/8/11	--	--	--	--	--	--	--	<51	<0.5	<0.5	<0.5	<1.6	<2.6	--	--
9/2/11	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/13/12	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/20/12	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
3/8/13	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
6/7/13	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/7/13	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/12/13	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	88.47
3/27/14	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
6/24/14	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
9/29/14	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
12/12/14	--	--	--	--	--	--	--	<51	<0.5	<0.5	<0.5	<1.6	<2.6	--	--
3/13/15	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
10/21/15	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
4/20/16	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
10/15/16	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
5/19/17	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
10/19/17	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
Standard Laboratory Reporting Limits:						--	--	50	0.5	0.5	0.5	1.5	2.5	1.00	1.00
MTCA Method A Cleanup Levels:						500	500	800/1,000	5	1,000	700	1,000	20	15	15
Current Method[4]:						NWTPH-Dx+Extended[5]		NWTPH-Gx	USEPA 8021B					USEPA Method 7421	

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]

CHEVRON SERVICE STATION NO. 97451

2626 Bellevue Way Northeast, Bellevue, Washington

Abbreviations:

D. Lead = Dissolved Lead
DTP = Depth to Product
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
MTBE = Methyl Tertiary Butyl Ether
MTCA = Model Toxics Control Act
ND = Not Detected
NP = No Purge
QA = Quality Assurance/Trip Blank
(R) = Re-analysis
SPH = Separate-phase hydrocarbons
SPHT = SPH Thickness
TOC = Top of Casing
T. Lead = Total Lead
TPH = Total Petroleum Hydrocarbons
TPH-DRO = TPH as diesel-range organics
TPH-GRO = TPH as gasoline-range organics
TPH-HRO = TPH as heavy oil-range organics
USEPA = United States Environmental Protection Agency
-- = Not Measured/Not Analyzed
µg/L = Micrograms per liter

Notes:

1 Analytical results in bold font indicate concentrations exceed MTCA Method A cleanup levels.
2 TOC elevations are expressed in feet relative to an arbitrary datum.
3 When SPH is present, GWE has been corrected using the following formula: GWE = [(TOC - DTW) + (SPHT x 0.80)].
4 Laboratory analytical methods for historical data may not be consistent with list of current analytical methods. When necessary, consult original laboratory reports to verify methods used.
5 Analyzed with silica-gel cleanup.
6 Laboratory indicates they did not receive QA.
7 Pre-surfactant injection groundwater sample.
8 Post-surfactant extraction groundwater sample.

TABLE 2
SPH THICKNESS/REMOVAL DATA
CHEVRON SERVICE STATION NO. 97451
2626 Bellevue Way Northeast
Bellevue, Washington
Concentrations reported in µg/L

DATE	DTP *(ft.)*	DTW *(ft.)*	SPH THICKNESS *(ft.)*	AMOUNT BAILED (SPH + WATER) *(gallons)*
MW-2				
03/20-21/00	14.40	17.13	2.73	3.00
12/06/00	14.98	16.05	1.07	0.00
03/21/01[1]	15.10	16.08	0.98	0.00
06/14/01[2]	13.39	14.74	1.35	0.00
09/19/01	14.20	15.02	0.82	3.00
12/05/01	14.10	15.00	0.90	2.00
03/07/02	10.45	10.68	0.23	1.00
06/14/02	10.62	11.00	0.38	3.00
08/06/02	11.34	11.74	0.40	2.00
08/14/02	11.39	11.77	0.38	2.00
10/01/02	12.52	13.02	0.50	2.00
10/11/02	14.21	14.63	0.42	2.00
11/07/02	12.58	13.10	0.52	2.00
12/18/02	14.30	14.71	0.41	2.00
01/18/03	12.54	13.02	0.48	2.00
02/12/03	12.51	12.97	0.46	2.00
03/01/03	13.33	13.72	0.39	2.00
04/14/03	12.48	12.91	0.43	2.00
05/16/03	13.41	13.79	0.38	2.00
06/12/03	10.75	11.13	0.38	2.00
07/06/03	13.49	13.86	0.37	2.00
08/26/03	13.04	13.48	0.44	2.00
08/29/03	12.58	13.00	0.42	2.00
09/30/03	12.95	13.36	0.41	2.00
11/07/03	12.88	13.26	0.38	2.00
12/10/03	13.99	14.29	0.30	2.00
01/05/04	12.73	13.09	0.36	2.00
03/04/04	12.15	12.46	0.31	1.00
03/16/04	12.22	12.52	0.30	2.00
04/26/04	12.77	13.06	0.29	1.00
05/17/04	12.90	13.19	0.29	2.00
06/14/04	11.78	12.11	0.33	0.00
08/16/04	12.97	13.26	0.29	2.00
09/04/04	12.70	12.91	0.21	0.00
11/02/04	12.49	12.72	0.23	0.00
12/06/04	13.79	14.03	0.24	0.00
03/04/05	13.34	13.44	0.10	1.00
05/11/05	12.53	12.83	0.30	2.00
07/06/05	12.44	12.70	0.26	2.00
08/05/05	12.60	12.81	0.21	0.21
08/15/05	13.20	13.33	0.13	1.00
08/29/05	13.15	13.35	0.20	2.00
09/26/05	12.77	12.95	0.15	1.00
10/28/05	12.47	12.65	0.18	1.00
12/03/05	14.30	14.53	0.23	2.00
02/04/06	12.17	12.38	0.21	1.00

leidos

TABLE 2
SPH THICKNESS/REMOVAL DATA
CHEVRON SERVICE STATION NO. 97451
2626 Bellevue Way Northeast
Bellevue, Washington
Concentrations reported in µg/L

DATE	DTP *(ft.)*	DTW *(ft.)*	SPH THICKNESS *(ft.)*	AMOUNT BAILED (SPH + WATER) *(gallons)*
MW-2 (cont)				
06/20/06	12.21	12.38	0.17	1.00
09/06/06	13.05	13.22	0.17	1.00
11/17/06	14.20	14.28	0.08	1.00
02/06/07	11.68	11.75	0.07	1.00
06/12/07	11.68	11.73	0.05	1.00
08/27/07	12.38	12.44	0.06	1.00
12/03/07	14.14	14.21	0.07	1.00
02/23/08	14.58	14.62	0.04	0.66
06/05/08	11.55	11.61	0.06	0.66
09/02/08	14.66	14.68	0.02	0.09
12/01/08[3]	15.40	15.57	0.17	0.47
03/21/09[3]	13.50	13.58	0.08	0.29
06/03/09[3]	11.98	12.28	0.30	0.29
09/08/09[3]	13.75	13.96	0.21	0.37
12/31/09[3]	14.10	14.11	0.01	0.00
03/19/10[3]	11.74	11.76	0.02	0.05
05/27/10[3]	11.11	11.17	0.06	0.14
09/30/10[3]	12.59	12.68	0.09	0.07
11/20/10[3]	12.90	12.99	0.09	0.03
03/08/11[3]	9.71	9.74	0.03	0.03
12/09/11[3]	13.12	13.22	0.10	1.00
03/13/12[3]	12.12	12.32	0.17	1.00
03/08/13[3]	10.33	10.35	0.02	0.25
06/07/13[3]	10.42	10.44	0.02	0.03
09/07/13[3]	12.80	12.88	0.08	0.03
12/12/13[3]	14.60	14.72	0.12	0.00
03/27/14[3]	13.55	13.60	0.05	0.53
06/24/14[2]	11.80	11.82	0.02	0.07
09/29/14[3]	14.10	14.37	0.27	0.26
12/12/14[3]	14.55	14.58	0.03	0.01
3/13/15[3]	0.00	11.80	0.00	0.00
10/21/15[3]	15.89	16.29	0.40	0.26
4/20/16[3]	0.00	10.80	0.00	--
10/15/16[3]	14.47	14.65	0.18	--
5/19/17[3]	8.70	8.72	0.02	--

Abbreviations:
DTP = Depth to Product
DTW = Depth to Water
(ft.) = Feet
SPH = Separate Phase Hydrocarbons

Notes:
1 Absorbent sock installed.
2 Absorbent sock replaced.
3 Absorbent sock in well.

leidos

Attachment A:
Groundwater Monitoring and Sampling Data Package

GETTLER-RYAN INC.

TRANSMITTAL

October 30, 2017
G-R #17156678

TO: Ms. Ruth A. Otteman
Leidos, Inc.
18912 North Creek Parkway, Suite 101
Bothell, WA 98011

FROM: Deanna L. Harding
Project Manager
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Chevron Service Station
#9-7451
2626 Bellevue Way Northeast
Bellevue, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Second Semi Annual Event of October 19, 2017**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data tables prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/9-7451

GETTLER-RYAN INC.

CHEVRON - SITE CHECK LIST

Facility#:	**Chevron #9-7451** Date: 10/19/12
Address:	**2626 Bellevue Way NE**
City/St.:	**Bellevue, WA**
Status of Site:	ACTIVE CHEVRON

DRUMS: *Please list below ALL DRUMS on site:*
(i.e., drum description, condition, labeling, contents and location of drums)

#	Description	Condition	Labeling	Contents/Capacity	Location
	NO DRUMS				

WELLS: *Please check the condition of ALL WELLS on site:*
(i.e., gaskets, bolts, replaced well plug and/or well lock, well box condition and etc.)

Well ID	Gaskets (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Replaced Plug Y/N	Replaced Lock Y/N	Well Box Manufacturer/Size/# of Bolts	Other
MW-1	OK	OK	NO	NO	TEMCO/8/2	
MW-2	↓	↓	↓	↓	UNIVERSAL/12 ↓	
MW-3					MORRIS/8/3	
MW-4					↓ ↓ ↓	
VE-2	↓	↓	↓	↓	EMCO/12/2	

Additional Comments/Observations: _____

STANDARD OPERATING PROCEDURE
GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells. Total well depths are measured annually.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize. Purge water is treated by filtering the water through granular activated carbon and is subsequently discharged to the ground surface at the site.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-7451 | Job Number: 17156678
Site Address: 2626 Bellevue Way NE | Event Date: 10/19/17 (inclusive)
City: Bellevue, WA | Sampler: GM

Well ID: MW-1 | Date Monitored: 10/19/17
Well Diameter: 2 in.
Total Depth: 24.90 ft.
Depth to Water: 12.54 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

12.36 xVF 0.17 = 2.10 x3 case volume = Estimated Purge Volume: 6.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.01

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr
Product Transferred to: _____

Start Time (purge): 0955 | Weather Conditions: RAIN
Sample Time/Date: 1025 / 10/19/17 | Water Color: CLEAR Odor: (Y) N SLIGHT
Approx. Flow Rate: — gpm. | Sediment Description: SL SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 14.14

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS (mS) µmhos/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
1000	2.25	6.79	0.327	17.59		
1005	4.5	6.75	0.332	17.50		
1010	6.5	6.74	0.330	17.41		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX+MTBE(8021)
	2 x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-7451 Job Number: 17156678
Site Address: 2626 Bellevue Way NE Event Date: 10/19/17 (inclusive)
City: Bellevue, WA Sampler: GM

Well ID MW-2 Date Monitored: 10/19/17
Well Diameter 2 in.
Total Depth 19.51 ft.
Depth to Water 13.95 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

5.56 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: 13.91 ft
Depth to Water: 13.95 ft
Hydrocarbon Thickness: 0.04 ft
Visual Confirmation/Description: AMBER / OILY
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr
Product Transferred to: ___

Start Time (purge): ___ Weather Conditions: ___
Sample Time/Date: / Water Color: ___ Odor: Y / N ___
Approx. Flow Rate: ___ gpm. Sediment Description: ___
Did well de-water? ___ If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: ___

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX+MTBE(8021)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc

COMMENTS: SPH PRESENT, NOT SAMPLED

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Plug: ___ Add/Replaced Lock: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-7451 Job Number: 17156678
Site Address: 2626 Bellevue Way NE Event Date: 10/19/17 (inclusive)
City: Bellevue, WA Sampler: GM

Well ID MW-3 Date Monitored: 10/19/17
Well Diameter 2 in.
Total Depth 19.28 ft.
Depth to Water 14.73 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

4.55 xVF 0.17 = 0.77 x3 case volume = Estimated Purge Volume: 2.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.64

Purge Equipment:
Disposable Bailer X
Stainless Steel Bailer
Stack Pump
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer X
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr
Product Transferred to:

Start Time (purge): 1040 Weather Conditions: RAIN
Sample Time/Date: 1110 / 10/19/17 Water Color: BROWN Odor: (Y) N SLIGHT
Approx. Flow Rate: — gpm. Sediment Description: SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 15.43

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS (mS) µmhos/cm)	Temperature ((C) F)	D.O. (mg/L)	ORP (mV)
1043	.75	6.86	0.569	16.84		
1046	1.5	6.84	0.584	16.82		
1049	2.5	6.81	0.560	16.79		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX+MTBE(8021)
	2 x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Plug: Add/Replaced Lock:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-7451 Job Number: 17156678
Site Address: 2626 Bellevue Way NE Event Date: 10/19/17 (inclusive)
City: Bellevue, WA Sampler: GM

Well ID MW-4 Date Monitored: 10/19/17
Well Diameter 2 in.
Total Depth 18.65 ft.
Depth to Water 13.75 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

4.90 xVF 0.17 = 0.83 x3 case volume = Estimated Purge Volume: 2.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.73

Purge Equipment:
Disposable Bailer X
Stainless Steel Bailer
Stack Pump
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer X
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr
Product Transferred to:

Start Time (purge): 0910 Weather Conditions: RAIN
Sample Time/Date: 0940 / 10/19/17 Water Color: BROWN Odor: Y (N)
Approx. Flow Rate: — gpm. Sediment Description: SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 14.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0913	1	6.96	0.434	16.95		
0916	1.75	6.94	0.431	16.82		
0919	2.5	6.91	0.428	16.74		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX+MTBE(8021)
	2 x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Plug: Add/Replaced Lock:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-7451 | Job Number: 17156678
Site Address: 2626 Bellevue Way NE | Event Date: 10/19/17 (inclusive)
City: Bellevue, WA | Sampler: GM

Well ID VE-2 | Date Monitored: 10/19/17
Well Diameter 2 in.
Total Depth 9.20 ft.
Depth to Water 9.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☑ Check if water column is less then 0.50 ft.

0.20 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr
Product Transferred to:

Start Time (purge): | Weather Conditions:
Sample Time/Date: / | Water Color: | Odor: Y / N
Approx. Flow Rate: gpm. | Sediment Description:
Did well de-water? | If yes, Time: | Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX+MTBE(8021)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc

COMMENTS: INSUFFICIENT H2O

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Plug: Add/Replaced Lock:

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

Facility # SS#9-7451-OML G-R#17156678 WBS
Site Address 2626 Bellevue Way NE, BELLEVUE, WA
Chevron PM MHO LEIDOSRO Lead Consultant Ruth Otteman
Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568
Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)
Consultant Phone # (925) 551-7444 x180
Sampler G. MEDINA

3 ☐ Grab ☐ Composite

4 Matrix: ☐ Soil ☐ Sediment ☐ Water ☒ Ground ☐ Potable ☐ NPDES ☐ Surface ☐ Oil ☐ Air

5 Analyses Requested

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Sediment	Water	Ground	Potable	NPDES	Surface	Oil	Air	Total Number of Containers	BTEX + MTBE	8021	8260	Naphth	8260 full scan	Oxygenates ___	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method
QA	171019	—	X				W							2	X						X								
MW-1	↓	1025	↓				↓							5	↓						↓	X							
MW-3		1110																											
MW-4	↓	0940	↓				↓							↓	↓						↓	↓							

☐ Results in Dry Weight
☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
☐ 8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run _____ oxy's on highest hit
☐ Run _____ oxy's on all hits

6 Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour | EDF/EDD

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)

EDD (circle if required)

CVX-RTBU-FI_05 (default)
Other: _____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	10/20/17	1235	[signature]	10/20/17	12:35
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____			Received by	Date	Time
Temperature Upon Receipt _____ °C			Custody Seals Intact? Yes No		

9

Attachment B:
Laboratory Analysis Report

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Report Date: November 02, 2017 16:57

Project: 97451

Account #: 11260
Group Number: 1865835
PO Number: 0015246308
Release Number: HORNE
State of Sample Origin: WA

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To	Leidos	Attn: Ruth Otteman
Electronic Copy To	Leidos	Attn: Jamalyn Agyei
Electronic Copy To	Gettler-Ryan Inc.	Attn: Gettler Ryan

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
QA-T-171019 NA Water	10/19/2017	9276841
MW-1-W-171019 Grab Groundwater	10/19/2017 10:25	9276842
MW-3-W-171019 Grab Groundwater	10/19/2017 11:10	9276843
MW-4-W-171019 Grab Groundwater	10/19/2017 09:40	9276844

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Analysis Report

Sample Description: **QA-T-171019 NA Water**
Facility# 97451 Job# 17156678
2626 Bellevue Way NE - Bellevue, WA

Chevron
ELLE Sample #: WW 9276841
ELLE Group #: 1865835
Matrix: Water

Project Name: **97451**

Submittal Date/Time: 10/21/2017 09:40
Collection Date/Time: 10/19/2017

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles	**SW-846 8021B**		**ug/l**	**ug/l**	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17297A94A	10/24/2017 14:13	Brett W Kenyon	1
02102	Method 8021 Water Master	SW-846 8021B	1	17297A94A	10/24/2017 14:13	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17297A94A	10/24/2017 14:13	Brett W Kenyon	1

Sample Description: **MW-1-W-171019 Grab Groundwater**
Facility# 97451 Job# 17156678
2626 Bellevue Way NE - Bellevue, WA

Chevron
ELLE Sample #: WW 9276842
ELLE Group #: 1865835
Matrix: Groundwater

Project Name: **97451**

Submittal Date/Time: 10/21/2017 09:40
Collection Date/Time: 10/19/2017 10:25

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles	**SW-846 8021B**		**ug/l**	**ug/l**	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1

The reverse surrogate, capric acid, is present at <1%.

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17297A94A	10/24/2017 21:28	Brett W Kenyon	1
02102	Method 8021 Water Master	SW-846 8021B	1	17297A94A	10/24/2017 21:28	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17297A94A	10/24/2017 21:28	Brett W Kenyon	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	172990036A	11/01/2017 12:39	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	172990036A	10/27/2017 16:02	Christine E Gleim	1

Sample Description: **MW-3-W-171019 Grab Groundwater**
Facility# 97451 Job# 17156678
2626 Bellevue Way NE - Bellevue, WA

Chevron
ELLE Sample #: WW 9276843
ELLE Group #: 1865835
Matrix: Groundwater

Project Name: **97451**

Submittal Date/Time: 10/21/2017 09:40
Collection Date/Time: 10/19/2017 11:10

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles	**SW-846 8021B**		**ug/l**	**ug/l**	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17297A94A	10/24/2017 21:54	Brett W Kenyon	1
02102	Method 8021 Water Master	SW-846 8021B	1	17297A94A	10/24/2017 21:54	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17297A94A	10/24/2017 21:54	Brett W Kenyon	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	172990036A	11/01/2017 13:01	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	172990036A	10/27/2017 16:02	Christine E Gleim	1

Sample Description: **MW-4-W-171019 Grab Groundwater**
Facility# 97451 Job# 17156678
2626 Bellevue Way NE - Bellevue, WA

Chevron
ELLE Sample #: WW 9276844
ELLE Group #: 1865835
Matrix: Groundwater

Project Name: **97451**

Submittal Date/Time: 10/21/2017 09:40
Collection Date/Time: 10/19/2017 09:40

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles	**SW-846 8021B**		**ug/l**	**ug/l**	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17297A94A	10/24/2017 22:19	Brett W Kenyon	1
02102	Method 8021 Water Master	SW-846 8021B	1	17297A94A	10/24/2017 22:19	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17297A94A	10/24/2017 22:19	Brett W Kenyon	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	172990036A	11/01/2017 15:52	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	172990036A	10/27/2017 16:02	Christine E Gleim	1

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: Chevron
Group Number: 1865835
Reported: 11/02/2017 16:57

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: 17297A94A	Sample number(s): 9276841-9276844	
Benzene	N.D.	0.2
Ethylbenzene	N.D.	0.2
Methyl tert-Butyl Ether	N.D.	0.3
NWTPH-Gx water C7-C12	N.D.	50
Toluene	N.D.	0.2
Total Xylenes	N.D.	0.2
Batch number: 172990036A	Sample number(s): 9276842-9276844	
DRO C12-C24 w/Si Gel	N.D.	30
HRO C24-C40 w/Si Gel	N.D.	70

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 17297A94A	Sample number(s): 9276841-9276844								
Benzene	20	20.58	20	20.65	103	103	80-120	0	30
Ethylbenzene	20.1	20.77	20.1	20.98	103	104	80-120	1	30
Methyl tert-Butyl Ether	20	22.21	20	21.97	111	110	68-145	1	30
NWTPH-Gx water C7-C12	1100	1148.68	1100	1146.32	104	104	80-120	0	30
Toluene	20.2	21.05	20.2	21.09	104	104	80-120	0	30
Total Xylenes	60.2	63.68	60.2	64.11	106	106	80-120	1	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 172990036A	Sample number(s): 9276842-9276844								
DRO C12-C24 w/Si Gel	1600	1029.44	1600	1022.46	64	64	32-117	1	20

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P####### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: Chevron
Group Number: 1865835
Reported: 11/02/2017 16:57

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: Method 8021 Water Master
Batch number: 17297A94A

	Trifluorotoluene-P	Trifluorotoluene-F
9276841	88	78
9276842	86	77
9276843	86	84
9276844	88	77
Blank	89	79
LCS	87	83
LCSD	87	85
Limits:	51-120	63-135

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 172990036A

	Orthoterphenyl
9276842	75
9276843	69
9276844	69
Blank	75
LCS	83
LCSD	77
Limits:	50-150

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P####### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11260 For Eurofins Lancaster Laboratories use only Group # 1865835 Sample # 9276841-44

Instructions on reverse side correspond with circled numbers.

(1) Client Information

Facility # SS#9-7451-OML G-R#17156678 WBS

Site Address 2626 Bellevue Way NE, BELLEVUE, WA

Chevron PM MHO LEIDOSRO Lead Consultant Ruth Otteman

Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)

Consultant Phone # (925) 551-7444 x180

Sampler G. MEDINA

(2) Sample Identification

Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	(4) Matrix: Soil	Sediment	Water: Ground	Potable	NPDES	Surface	Oil	Air	Total Number of Containers	(5) Analyses Requested: BTEX + MTBE	8021	8260	Naphth	8260 full scan	Oxygenates ____	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA EPH	WA VPH	Lead	Total	Diss.	Method ____
QA	171019	—	X				W						2	X						X									
MW-1	↓	1025	↓				↓						5	↓						↓	X								
MW-3		1110																										
MW-4		0940																										

SCR #: _____

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm MTBE + Naphthalene
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

(6) Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

(7) Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day

72 hour 48 hour EDF/EDD 24 hour

Relinquished by	Date	Time	Received by	Date	Time
[signature]	10/20/17	1235	[signature]	10/20/17	12:35

(8) Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required)

CVX-RTBU-FI_05 (default)

Other: _____

Relinquished by Commercial Carrier: UPS X FedEx _____ Other _____

Temperature Upon Receipt 0.5 - 1.0 °C

Received by [signature] Date 10/21/17 Time 940

Custody Seals Intact? (Yes) No

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 198404

Group Number(s): 1865835

Client: Washington Office

Delivery and Receipt Information

Delivery Method:	SeaTac	Arrival Timestamp:	10/21/2017 9:40
Number of Packages:	6	Number of Projects:	4
State/Province of Origin:	WA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Simon Nies (25112) at 13:55 on 10/21/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-01	1.0	DT	Wet	Y	Bagged	N
2	DT42-01	0.8	DT	Wet	Y	Bagged	N
3	DT42-01	0.5	DT	Wet	Y	Bagged	N
4	DT42-01	0.5	DT	Wet	Y	Bagged	N
5	DT42-01	0.5	DT	Wet	Y	Bagged	N
6	DT42-01	0.6	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	non-detect
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

eurofins | Lancaster Laboratories Environmental

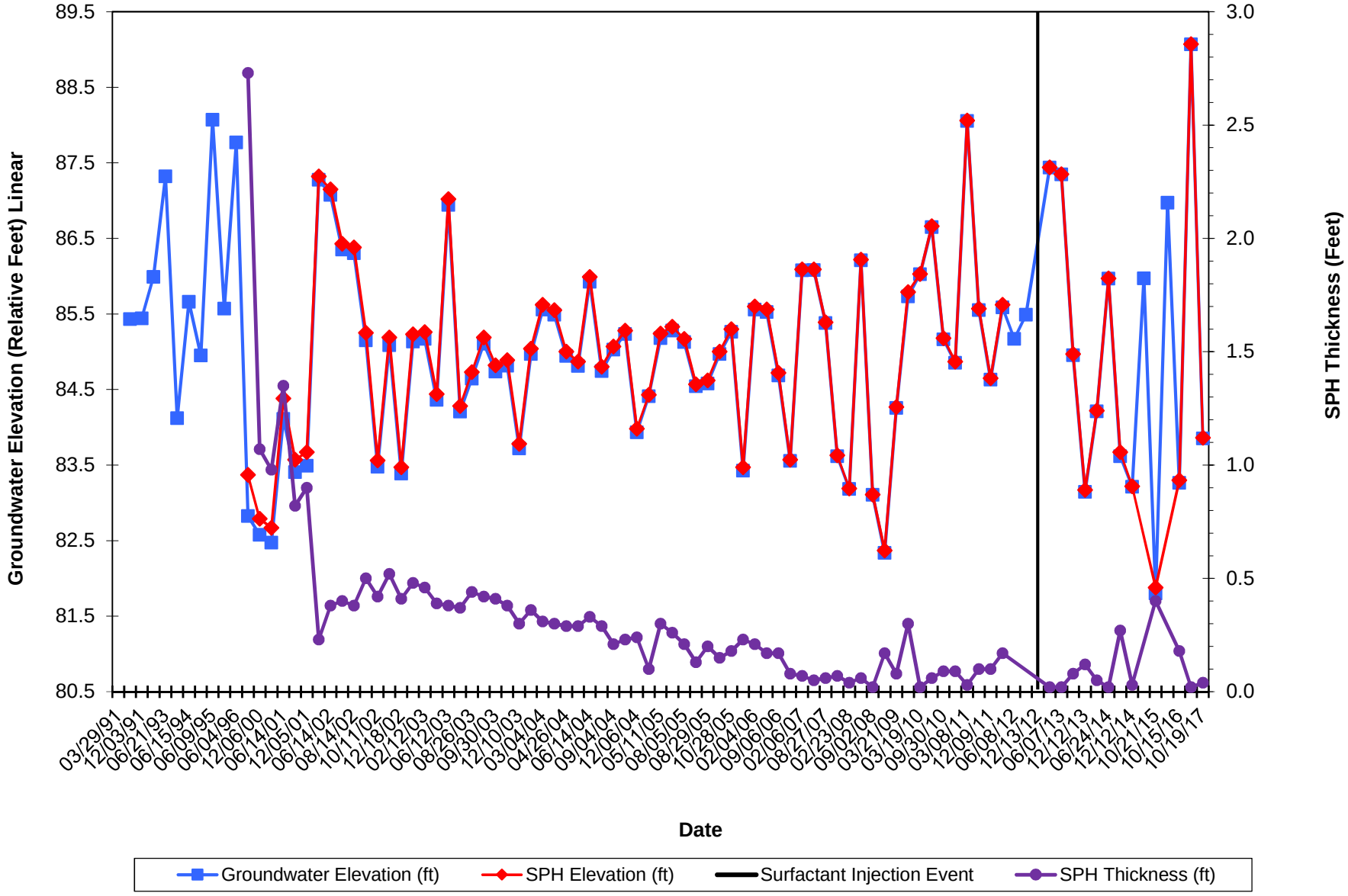
Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

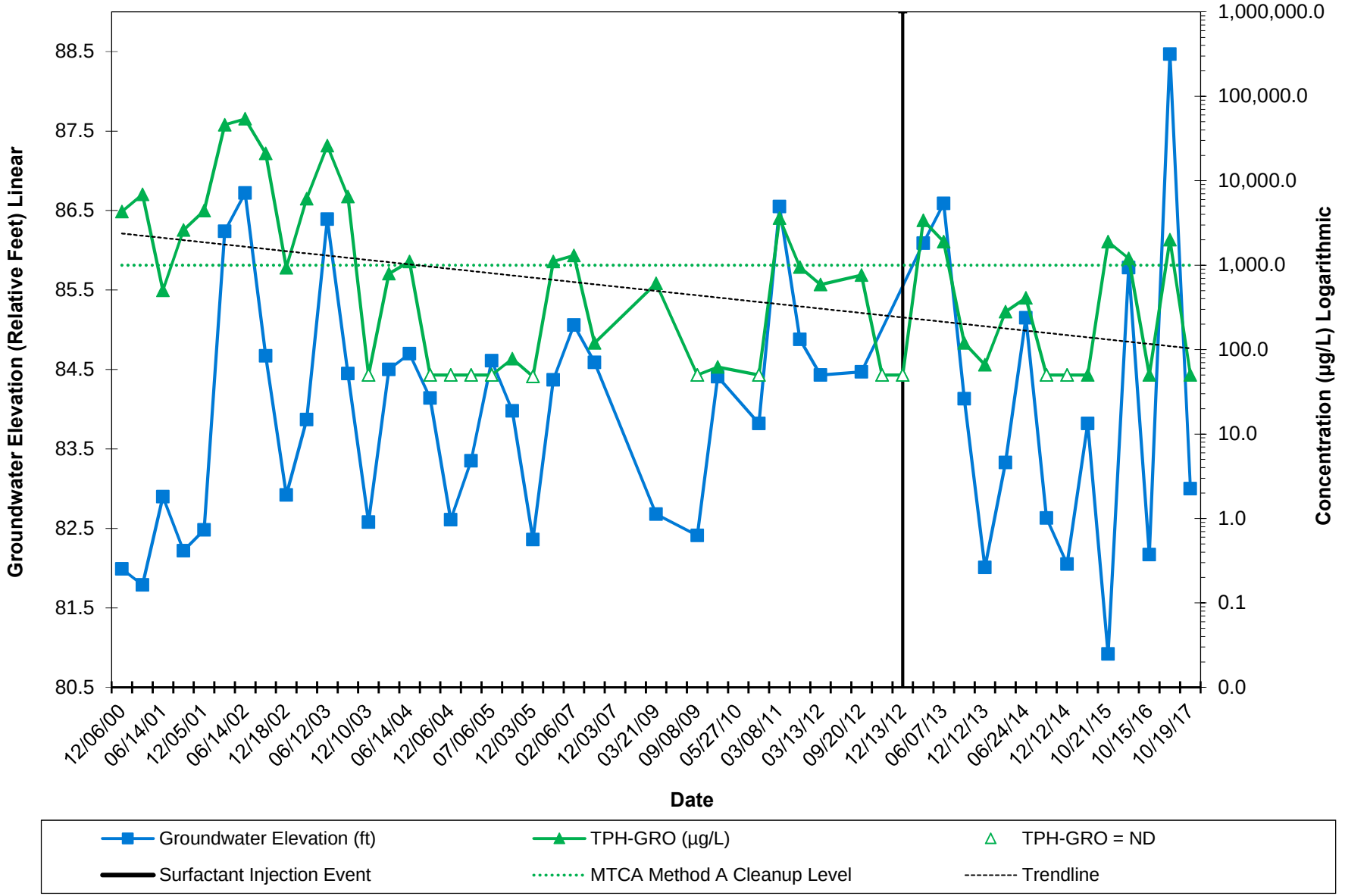
Attachment C:
Hydrographs

Well MW-2
Hydrograph - GW and SPH Elevation vs SPH Thickness
Chevron Service Station No. 97451
2626 Bellevue Way Northeast, Bellevue, WA



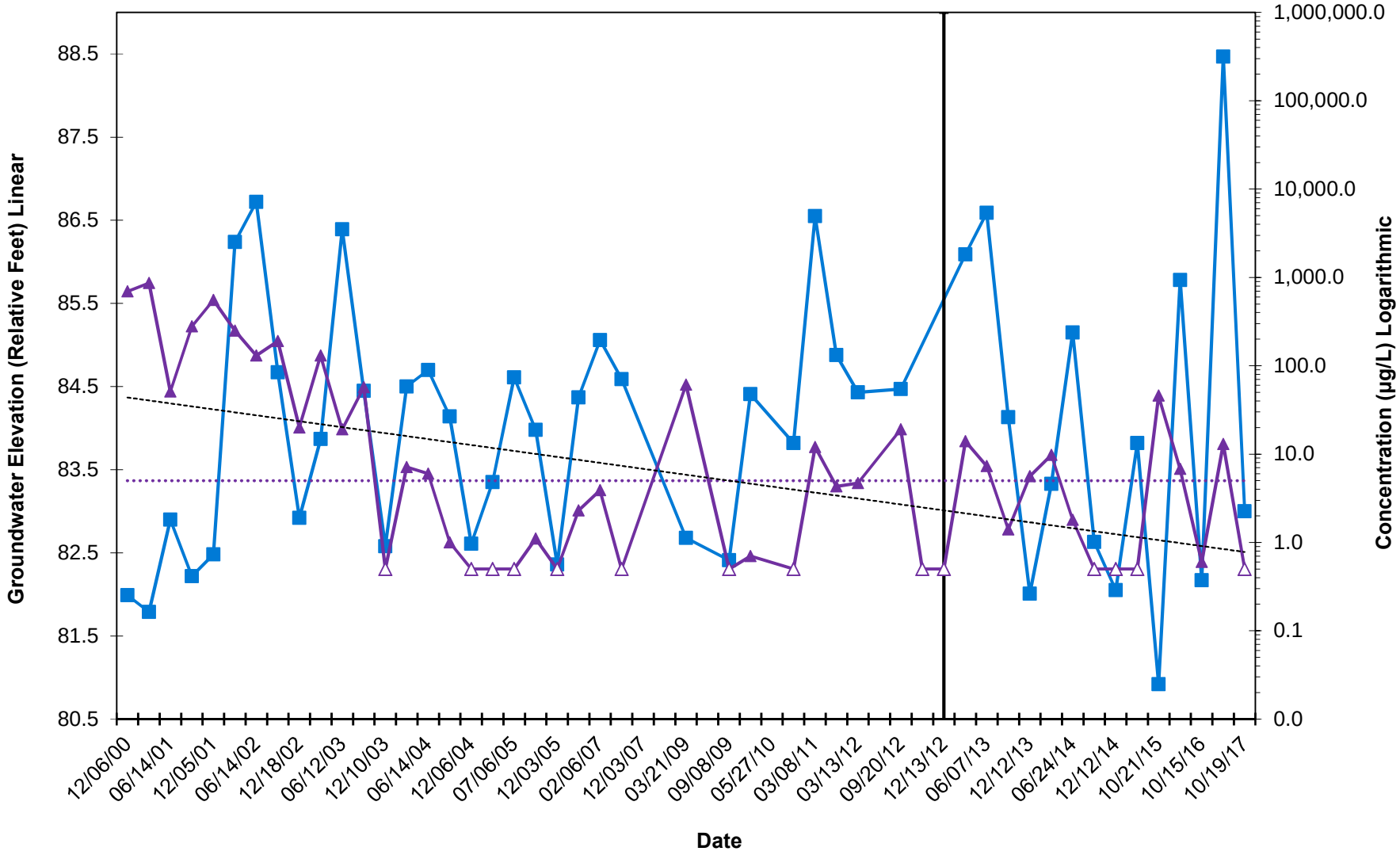
leidos

Well MW-3
Hydrograph - Gasoline-Range Hydrocarbons
Chevron Service Station No. 97451
2626 Bellevue Way Northeast, Bellevue, WA



leidos

Well MW-3
Hydrograph - Benzene
Chevron Service Station No. 97451
2626 Bellevue Way Northeast, Bellevue, WA



leidos